PTO/SB/21 (09-04) Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE he Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Application Number 10/823.483 TRANSMITTAL Filing Date 04/12/2004 First Named Inventor **FORM Avto TAVKHELIDZE** Art Unit Examiner Name (to be used for all correspondence after initial filing) Attorney Docket Number Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication to TC Fee Transmittal Form Drawing(s) Appeal Communication to Board Licensing-related Papers of Appeals and Interferences Fee Attached Appeal Communication to TC Petition Amendment/Reply (Appeal Notice, Brief, Reply Brief) Petition to Convert to a Proprietary Information After Final **Provisional Application** Power of Attorney, Revocation Change of Correspondence Address Status Letter Affidavits/declaration(s) Other Enclosure(s) (please Identify Terminal Disclaimer Extension of Time Request below): Copies of 17 documents listed in the IDS. Request for Refund **Express Abandonment Request** CD, Number of CD(s) Information Disclosure Statement Landscape Table on CD Certified Copy of Priority Remarks Document(s) Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Name Signature Printed name Jonathan Sidney EDELSON Date Reg. No. 10/18/2004

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Sup.	State to form 1443/110	Application Number	10/823,483	
18	FORMATION DISCLOSURE	Filing Date	04/12/2004	
		First Named Inventor	Avto TAVKHELIDZE	
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Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ^{2 (# known)}			- I iguico rippedi
		^{US-} 3,578,992	05-18-1971	Shimada, K.	_
		^{US-} 3,740,592 A	06-19-1973	Engdahl et al.	
		^{US-} 3,843,896	10-22-1974	Rason et al.	
		^{US-} 4,004,210	01-18-1977	Yater, J.C.	
		^{US-} 4,039,352	08-02-1977	Marinescu, M.	
		^{US-} 4,039,352 A	08-02-1977	Marinescu	
		^{US-} 4,011,582 A	03-08-1977	Cline et al.	
		^{US-} 4,063,965 A	12-20-1977	Cline et al.	
		^{US-} 4,224,461	09-23-1980	Snyder, Jr. et al.	
		^{US-} 4,281,280	07-28-1981	Richards	
		^{US-} 4,410,951	10-18-1983	Nakamura, T.	
		^{US-} 4,423,347	12-27-1983	Kleinschmidt, P.	
		^{US-} 4,667,126	05-19-1987	Fitzpatrick, G.O.	
		^{US-} 4,937,489	06-26-1990	Hattori, S.	
		us- 4,958,201	09-18-1990	Mimura, T.	
		^{US-} 5,028,835	07-02-1991	Fitzpatrick, G.O.	
		^{US-} 5,049,775	09-17-1991	Smits, J.	
		^{US-} 5,083,056	01-21-1992	Kondou, Y.	
		^{US-} 5,119,151	06-02-1992	Onda, K.	

		FORE	IGN PATENT DOCU	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
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Transation is attached.

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Application Number 10/823,483

Filing Date 04/12/2004

First Named Inventor Avto TAVKHELIDZE

Art Unit

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				DOCUMENTS	
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (d known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear
		^{US-} 5,233,205	08-03-1993	Usagawa, T.	
		^{US-} 5,229,320	07-20-1993	Ugajin, R.	
		^{US-} 5,247,223	09-21-1993	Mori, Y.	
		^{US-} 5,351,412	10-04-1994	Furuhata, T.	
		^{US-} 5,307,311	04-26-1994	Sliwa, Jr.	
		^{US-} 5,371,388	12-06-1994	Oda. H.	
		^{US-} 5,332,952	07-26-1994	Ugajin, R.	
		^{US-} 5,336,547 A	08-09-1994	Kawakita et al.	
		^{US-} 5,356,484	10-18-1994	Yater. J.C.	
		^{US-} 5,410,166	04-25-1995	Kennel	
		^{US-} 5,465,021	11-07-1995	Visscher, A.	
		^{US-} 5,487,790	01-30-1996	Yasuda	
		^{US-} 5,521,735	05-28-1996	Shimizu, A.	
		^{US-} 5,592,042	01-07-1997	Takuchi, Y.	
		us- 5,675.972 A	10-14-1997	Edelson, J.S.	
		^{US-} 5,699,668 A	12-23-1997	Cox. I.W.	
		^{US-} 5,701,043	12-23-1997	Razzaghi, M.	
		^{US-} 5,722,242 A	03-03-1998	Edelson, J.S	
		^{US-} 5,810,980	09-22-1998	Edelson, J.S	

	FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
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		First Named Inventor	Avto TAVKHELIDZE	
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			U. S. PATENT	DOCUMENTS	
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		Number-Kind Code ^{2 (# known)}	00.00.4000	F. 1.	r igures repeat
		^{US-} 5,874,039	02-23-1999	Edelson, J.S.	
		^{US-} 5,917,156 A	06-29-1999	Nobori et al.	
	Ì	^{US-} 5,981,071	11-09-1999	Cox, I.W.	
		^{US-} 5,981,866	11-09-1999	Edelson, J.S.	
		^{US-} 5,973,259	10-26-1999	Edelson, J.S.	
		^{US-} 5,994,638	11-30-1999	Edelson, J.S.	
		^{US-} 6,084,173	07-04-2000	DiMatteo	
		^{US-} 6,064,137	05-16-2000	Cox, R.T.	
		^{US-} 6,089,311	07-18-2000	Edelson, J.S.	
		^{US-} 6,225,205 B1	05-01-2001	Kinoshita	
		^{US-} 6,281,514	08-28-2001	Tavkhelidze, A.	
•		^{US-} 6,214,651 B1	04-10-2001	Сох	
		^{US-} 2001/0046749 A1	11-29-2001	Tavkhelidze et al.	
		^{US-} 6,417,060 B2	07-09-2002	Tavkhelidze et al.	
		us- 2003/0068431 A1	04-10-2003	Taliashvili et al.	
		^{US-} 6,720,704 B1	04-13-2004	Tavkhelidze et al.	
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Examiner Initials*	Cite Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	10/823,483				
Filing Date	04/12/2004				
First Named Inventor	Avto TAVKHELIDZE				
Art Unit					
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			U. S. PATEN	DOCUMENTS	-	
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant	
		Number-Kind Code ^{2 (d known)}	<u> </u>		Figures Appear	
		^{US-} 2,510,397	06-06-1950	Hansell, C.W.		
		^{US-} 2,915,652	12-01-1959	Hatsopoulos, G.N.		
		^{US-} 3,021,472	02-13-1962	Hernqvist, K.G.		
		^{US-} 3,118,107	01-14-1964	Gabor, D.		
		^{US-} 3,194,989	07-13-1965	Garbuny		
		^{US-} 3,169,200	02-09-1965	Huffman, F.N.		
		^{US-} 3,173,032	03-09-1965	Maynard, J.T.		
		US- 3,238,395	03-01-1966	Sense, K.A.		
		^{US-} 3,239,745	03-08-1966	Hernqvist, K.G.		
		^{US-} 3,267,307	08-16-1966	Fox, R.		
		^{US-} 3,267,308	08-16-1966	Hernqvist, K.G.		
		^{US-} 3,281,372	10-25-1966	Haas, G.A.		
		^{US-} 3,300,660	01-24-1967	Bensimon, J.		
		^{US-} 3,328,611	06-27-1967	Davis, E.D.		
		us- 3,376,437	04-02-1968	Meyerand, Jr, R.G		
		us- 3,393,330	07-16-1968	Vary, A.		
		^{US-} 3,470,393	09-30-1969	Moncorge, G.		
		^{US-} 3,515,908	06-02-1970	Caldwell, F.		
		^{US-} 3,519,854	07-07-1970	Davis, E.D.		

		FORE	IGN PATENT DOCU	JMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ "Number ⁴ "Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T ⁶
		SU 861916 A	09-10-1981	Burmistrov, V.M		
		JP 404080964A	03-13-1992	Ando, Y.		
		WO 97/02460 A1	01-23-1997	Edelson, J.S.		
		WO 99/13562 A1	03-18-1999	Tavkhelidze et		
		WO 03/090245 A1	10-30-2003	Tavkhelidze et		

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		NON PATENT LITERATURE DOCUMENTS	
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		FITZPATRICK, G.O. ET AL. "Close-Spaced Thermionic Converters with Active Spacing Control and Heat Pipe Isothermal Emitters." IEEE.vol. 2: pp 920-927 (1996).	
		FITZPATRICK, G.O. ET AL. "Demonstration of Close-Spaced Thermionic Converters." Abs. Papers. Am. Chem. Soc. 93355: pp 1.573-1.580 (1993).	
		MAHAN, G.D. "Thermionic Refrigeration." J. Appl. Phys 76: pp 4362-4366 (1994).	
		HUFFMAN, F.N. ET AL. "Preliminary Investigation of a Thermotunnel Converter." I.E.C.E.C. vol. 1: pp 573-579 (1988).	
		HOUSTON. J.M. "Theoretical Efficiency of the Thermionic Energy Converter." J.Appl. Phys. 30: pp 481-487 (1959).	
		KING. D.B. ET AL. "Results from the Microminiature Thermionic Converter Demonstration Testing Program." Am. Inst. of Phys. 1-56396-846: pp 1432-1436 (1999).	
		ZENG. T AMD CHEN. G. "Hot Electron Effects on Thermionic Emission Cooling in Heterostructures." Mat. Res. Soc. 545: pp 467-472 (1999).	
		SHAKOURI. A. ET AL. "Enhanced Thermionic Emission Cooling in High Barrier Superlattice Hetero- structures." Mat. Res. Soc. 545: pp 449-458 (1999).	
		FUKUDA. R. ET AL. "Development of the Oxygenated Thermionic Energy Converters Utilizing the Sputtered Metal Oxides as a Collector." Am. Inst. Phys. pp 1444-1451 (1999).	
		SVENSSON, R. AND HOLMID. L. "TEC as Electric Generator in an Automobile Catalytic Converter." IEEE. vol. 2: pp 941-944 (1996).	

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Signature	Considered	

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		FITZPATRICK G O ET AL: "Updated perspective on the potential for thermionic conversion to meet 21st century energy needs" IECEC'97. PROCEEDINGS OF THE 32nd INTERSOCIETY ENERGY CONVERSION ENGINEERING CONFERENCE. ENERGY SYSTEMS, RENEWABLE ENERGY RESOURCES, ENVIRONMENTAL IMPACT AND POLICY IMPACTS ON ENERGY. HONOLULU, HI. JULY 27 - AUG. 1, 1997. INTERSOCIETY ENERGY CONVERS. vol 3 & 4, 27 July 1997 (1997-07-27). pages 1045-1051.	
		KALANDARISHVILI A G: "The basics of the technology of creating a small interelectrode spacing in thermionic energy converters with the use of two-phase systems" IECEC'97. PROCEEDING OF THE 32nd INTERSOCIETY ENERGY CONVERSION ENGINEERING CONFERENCE. ENERGY SYSTEMS, RENEWABLE ENERGY RESOURCES, ENVIRONMENTAL IMPACT AND POLICY IMPACTS ON ENERGY. HONOLULU, HI. JULY 27 - AUG 1, 1997. INTERSOCIETY ENERGY CONVERS. vol. 3 & 4, 27 July 1997 (1997-07-27). pages 1052-1056.	
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